Student ID:_____ Seat No.:_____

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

DEPARTMENT OF COMPUTER APPLICATIONS

Program: Bachelor of Computer Applications - Batch-B

Semester-I Mid Semester Examination (Practical)

Date:19-09-2019 Day: Thursday Duration: 03:15PM- 04:15PM

BCA1112C04 Introduction to Programming using Python Lab Marks: **30**

INSTRUCTIONS:

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1. Attempt all problems.
2. In the beginning of each file, write the program objective, name of programmer, date of program creation, programming language and version of program.
3. Name your variables appropriately.
4. Add comments whenever necessary.
5. Prepare separate program file for every problem and save them in your respective Z:\ drive under PythonLabExam folder with the name <Set No><QNo>.py eg to save a file of Set A and Question 3 , save it as: Z:\PythonLabExam\AQ3.py
6. Prepare a MS Word document of the problem statement, your solution and at least two outputs. (Optional)

SET B

[6 x 5 = 30]

Q1. Write a program that calculates no of Weeks, Days,Hours, Minutes and Seconds in a year.

Q2. Write a program convert a decimal no to its equivalent hexadecimal, octal and binary systems and vice versa.

Q3. Write a program to calculate area of a triangle whose three sides are entered by user.

Q4. Calculate the area of circle using Pi value and pow function of math module.

Q5. Write a program to display the ascii value of a user inputted character.

Q6. Write a program to find sum of first n numbers.

End

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Sample problem and solution

Set A

Q1. Write a program to calculate area of a room.

Solution

```
## Q1. Write a program to calculate area of a room.

##############################################################################
##Program Objective: to calculate area of a room.
##Coded by: KNR
##Date: 17/09/2019 22:20
##Lang: Python 3.7.4
##Version: 1.0
##############################################################################

print("-------------------------------------------------")
lenghtOfRoom = float(input("Enter length:"))
breadthOfRoom = float(input("Enter breadth:"))
areaOfRoom = lenghtOfRoom * breadthOfRoom     # to calculate area
print("The area of the room is {0}".format(areaOfRoom))
print("-------------------------------------------------")
```

Note: Save this file in Z:\PythonLabExam\AQ1.py